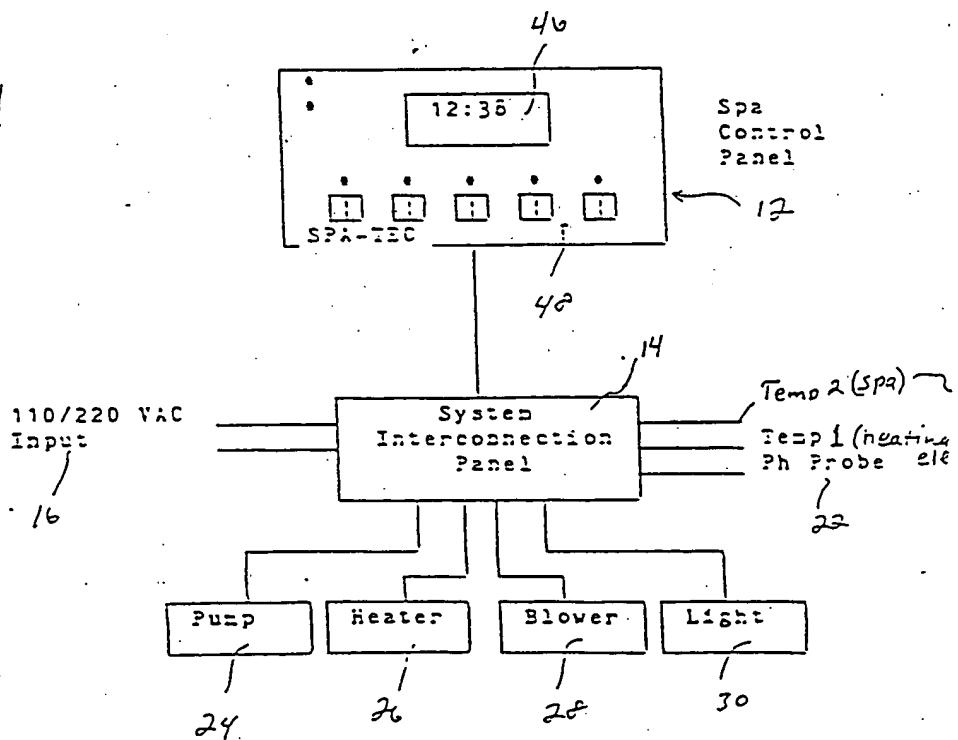


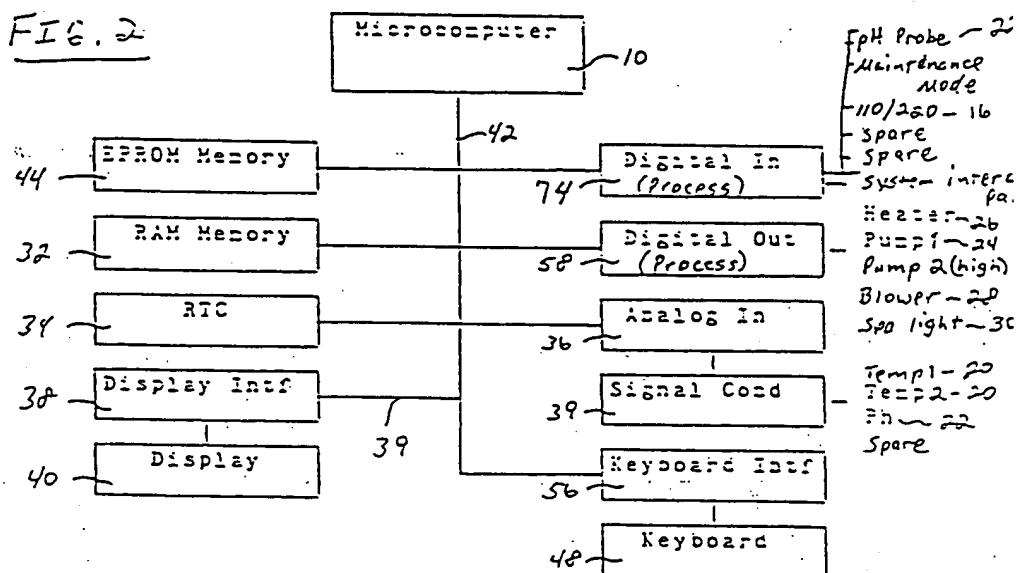
2000700-00042000

FIG. 1



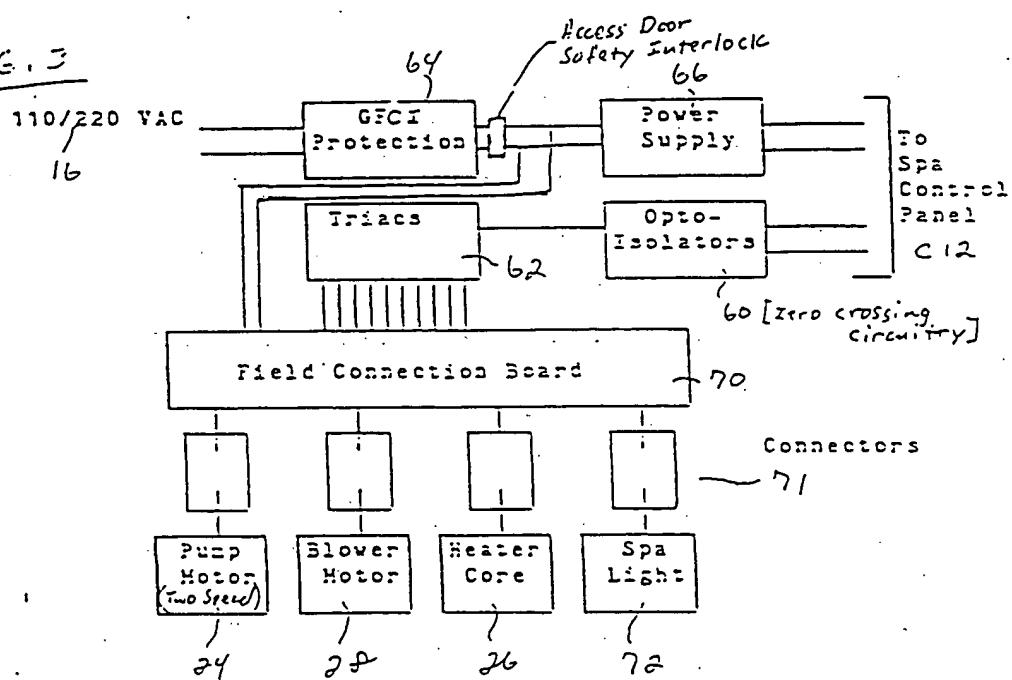
2000710-6625400

FIG. 2



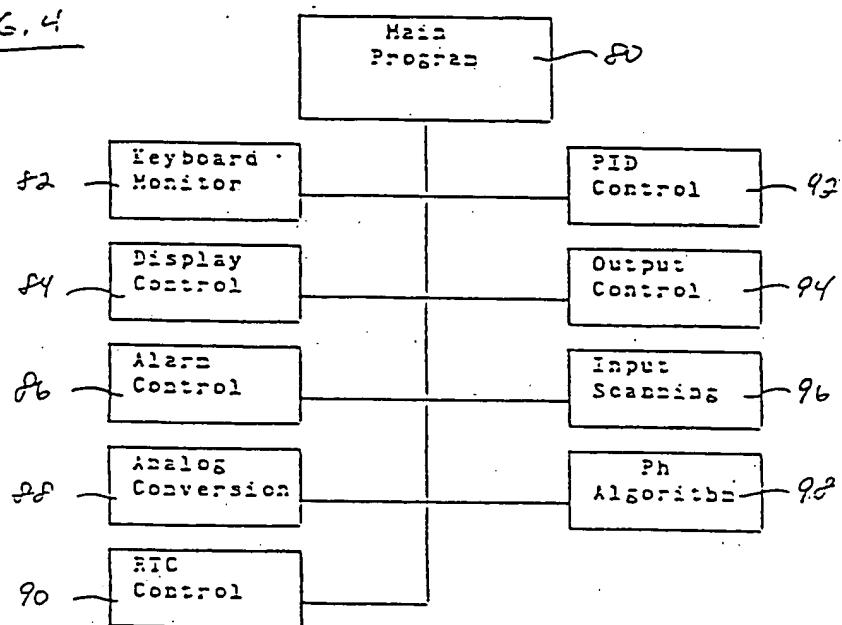
2006070 - 6542690T

FIG. 3



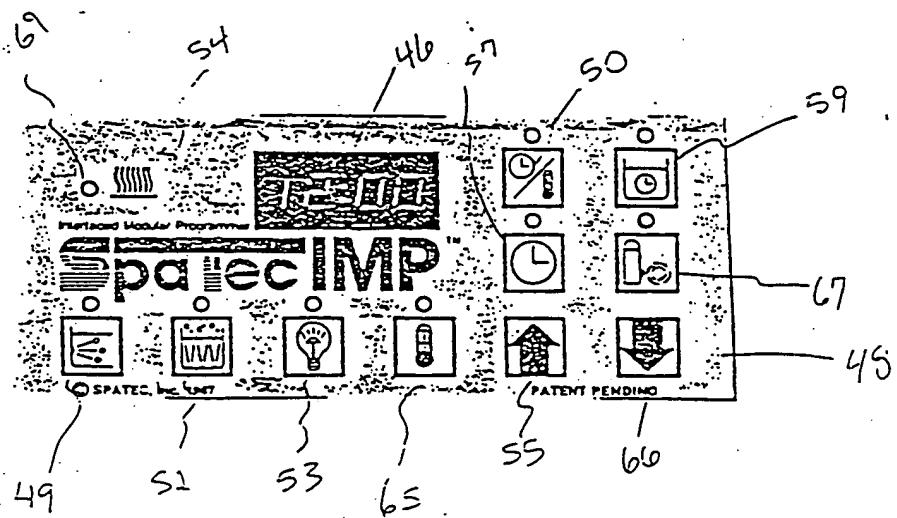
20160707-00025000T

FIG. 4



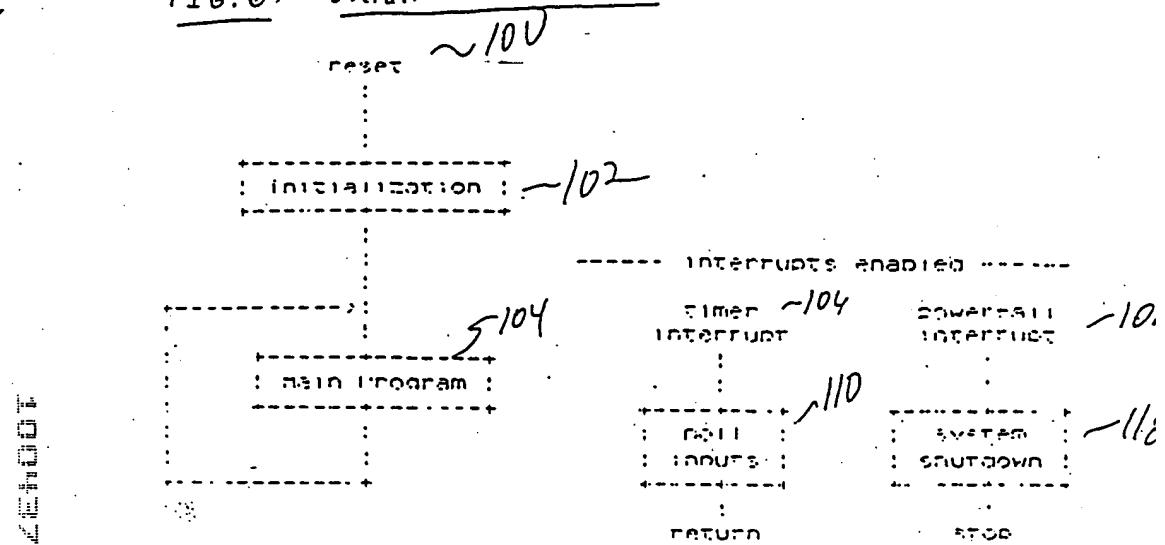
20160110-66261007

FIG. 5



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FIG. 6. - Overall Flow or Control



2000-06-26 00:00:00

FIG. 7

Temp<sub>F</sub> = Desired temperature of Spa water

Temp<sub>1</sub> = Temperature at First Sensor (S<sub>1</sub>)

Temp<sub>2</sub> = Temperature at Second Sensor (S<sub>2</sub>)

Temp<sub>D</sub> = Temp<sub>1</sub> - Temp<sub>2</sub>

Δ<sub>L</sub> = Limit of acceptable temperature difference (plus or minus).

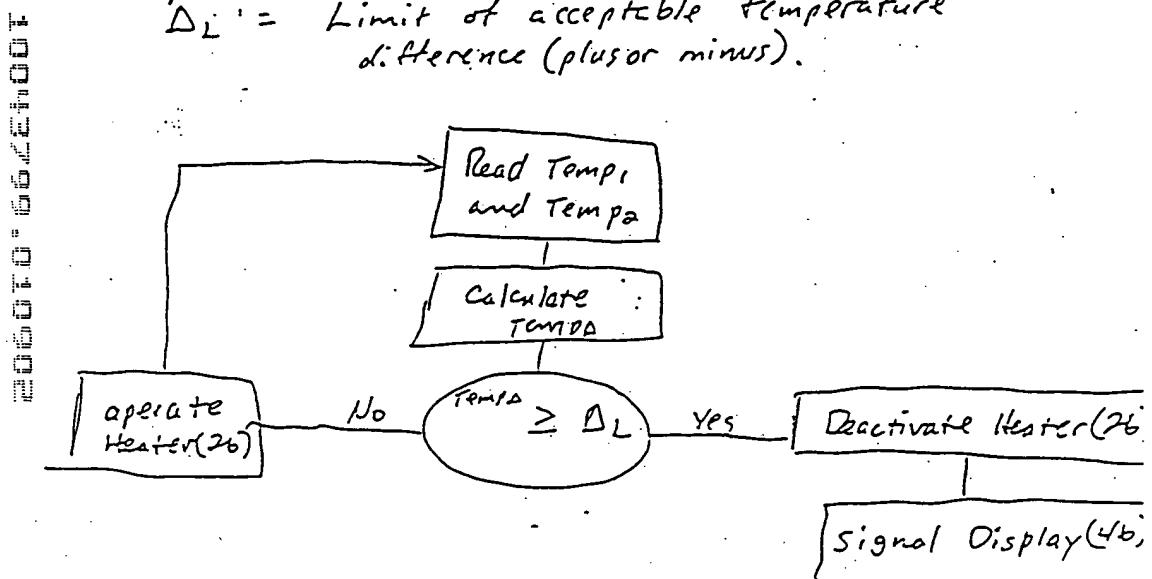
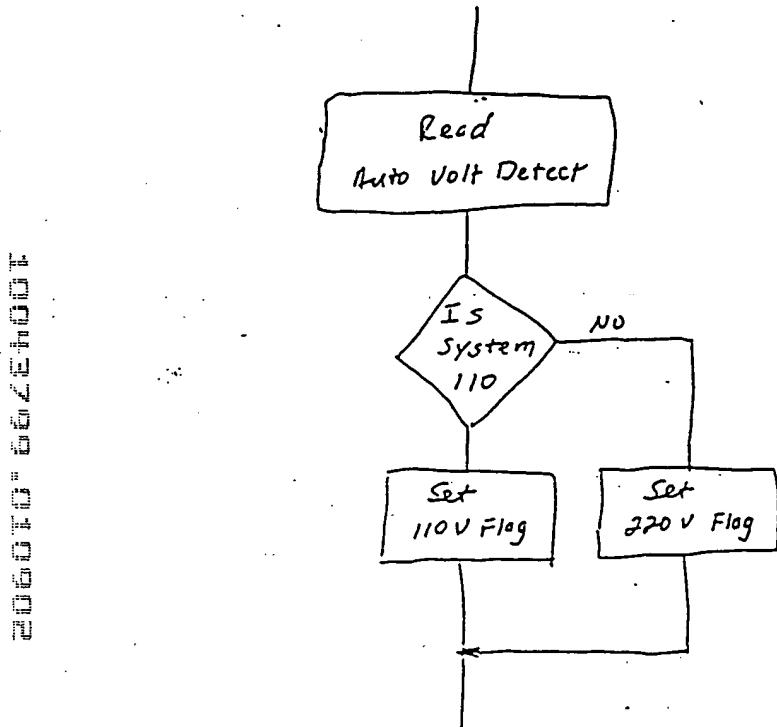


FIG. 8



20060709-00270002

FIG. 9

Rate = Rate of Heating

Rate<sub>Av</sub> = Rate of Heating + average

Temp<sub>F</sub> = Desired Temperature of Spa Water

Temp<sub>I</sub> = Initial temperature of spa water

Temp<sub>Δ</sub> = Temp<sub>F</sub> - Temp<sub>I</sub>

Time<sub>I</sub> = Time (initial)

Time<sub>F</sub> = Time (final)

Time<sub>Δ</sub> = Time<sub>F</sub> - Time<sub>I</sub>

Read Temp<sub>I</sub>

Read Time<sub>I</sub>

Activate Heater (26)

Continue

Temp<sub>F</sub>

Calculate  
Times

Calculate  
Rate<sub>Av</sub>

Store  
Rate

FIG 10

Temp<sub>I</sub> = Initial temperature of spa water

Temp<sub>F</sub> = Final temperature (desired) of spa water

Temp<sub>Δ</sub> = Temp<sub>F</sub> - Temp<sub>I</sub>

Rate = Rate of Heating

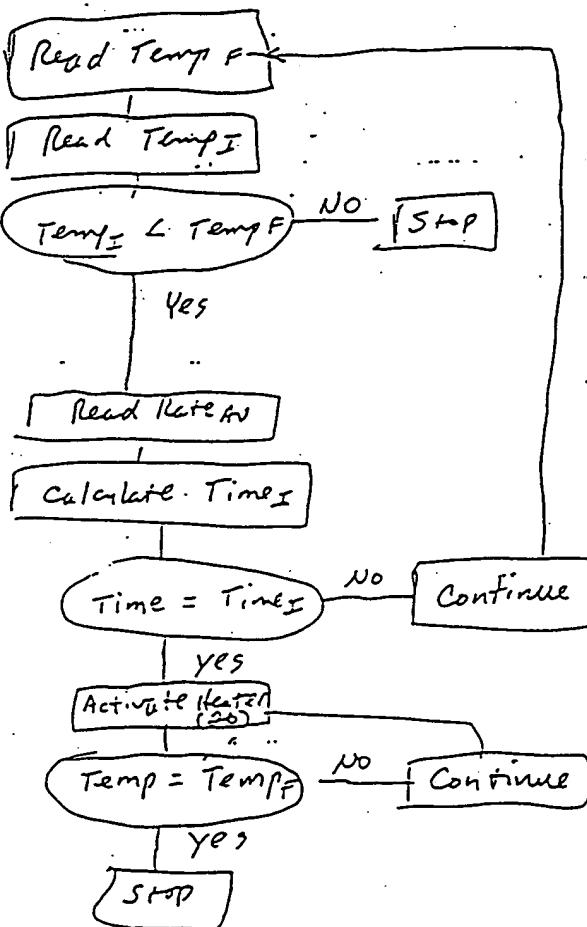
Rate<sub>AVG</sub> = Rate of heating (average)

Time<sub>I</sub> = Initial time

Time<sub>F</sub> = Final time

Time<sub>Δ</sub> = Time<sub>F</sub> - Time<sub>I</sub>

20060701 064247000 T



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FIG. 11

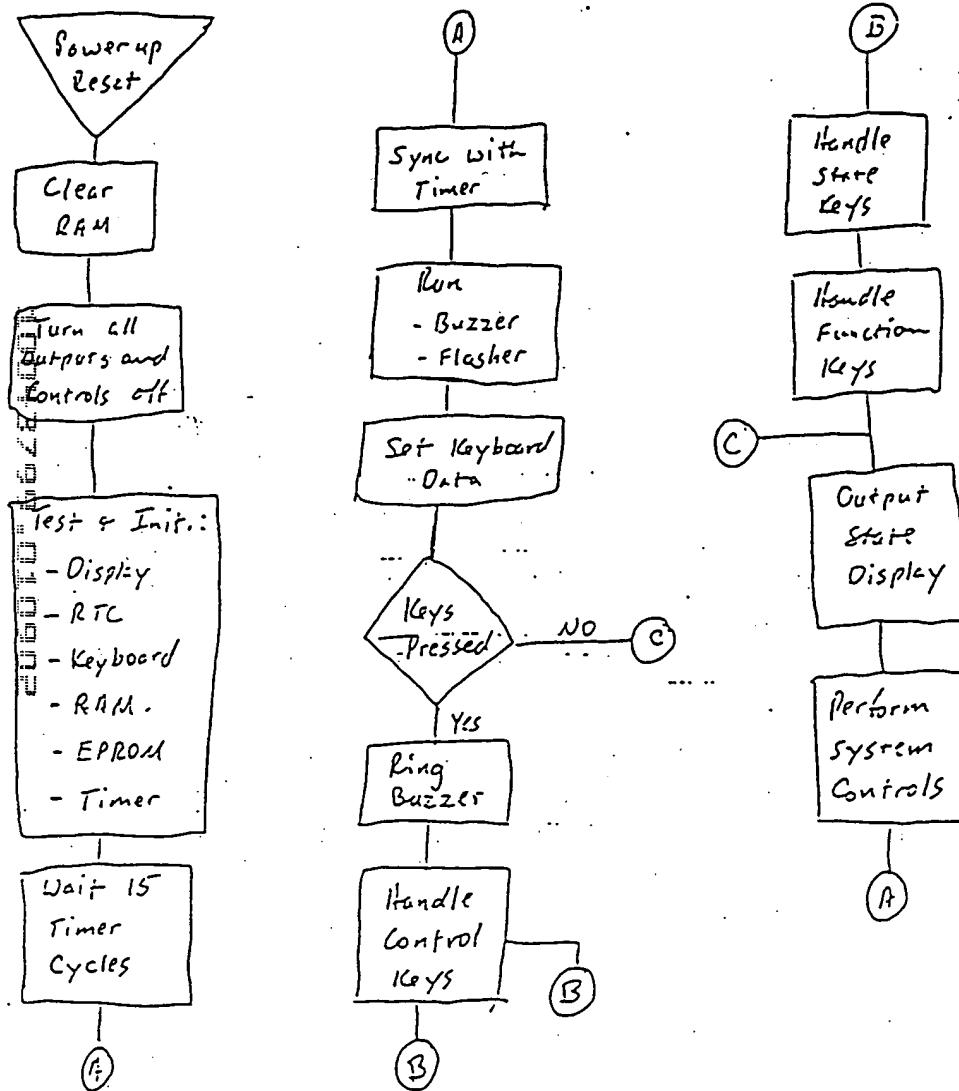


FIG. 12

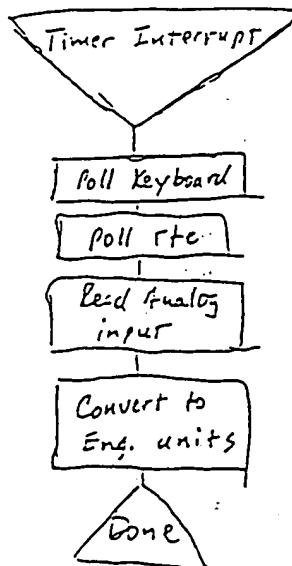


FIG. 13

